

Sow Site Incidence Report

January - April 2018

Issue Number 3

Key Messages for Producers

- There have been 6 new PED and 2 new PDCoV cases in Ontario from March 1st to May 20th.
- Processor docks and trailers have also tested positive for these pathogens at times, presenting a risk for disease transmission.
- There have been 13 new sow site PRRS breaks in the first quarter of 2018 and sow site breaks in Q4 2017 and Q1 2018 represent almost 10% of our Ontario sow base.

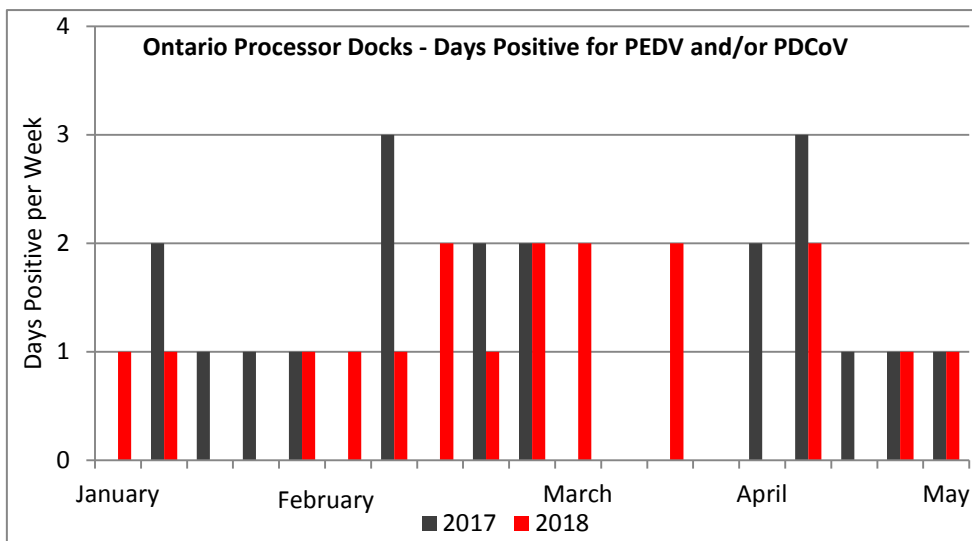
Visit the Ontario ARC&E Website: <http://onarce.ca/> for biosecurity protocols and to log into the ARCE map if you are an ARCE participant.

PED and PDCoV Update

There have been 6 new Porcine Epidemic Diarrhea (PED) and 2 new Porcine Deltacoronavirus (PDCoV) cases in Ontario from March 1st to May 20th with 2 of these sites being farrowing sites as detailed below. **This is double the incidence of new PED cases when compared to this timeframe in 2017.** All producers are working with their herd veterinarians on containment and virus elimination strategies are under development.

Date	County	Production Type	PED/PDCoV
19-Mar-18	Middlesex	Finish	PDCoV
3-Apr-18	Perth	Farrow-to-wean	PED
6-Apr-18	Perth	Finish	PED
6-Apr-18	Perth	Finish	PED
17-Apr-18	Huron	Finish	PED
1-May-18	Lambton	Finish	PED
15-May-18	Middlesex	Wean-to-finish	PED
17-May-18	Elgin	Farrow - wean	PDCoV

As well, there have been continued PED/ PDCoV positive dock samples throughout the spring at the federally licensed processor who is participating in surveillance efforts. Through trace back efforts, positive results were found from trailers delivering to the processor. The transporters and producers associated with these positive loads have been contacted and further actions taken in collaboration with their veterinarians.



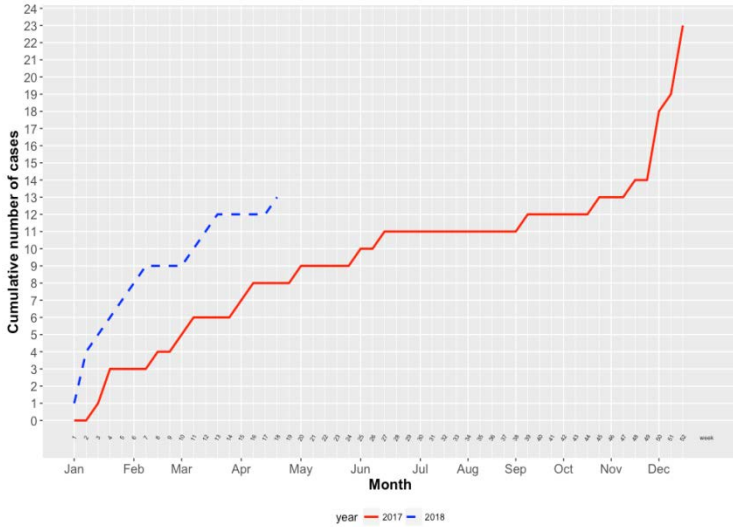
Producers are advised to review biosecurity protocols internally and with your transporter to reduce disease transmission risks.

Transport is not the only disease transmission risk to consider, and all staff and service providers with access to your barn should be reminded of biosecurity protocols.

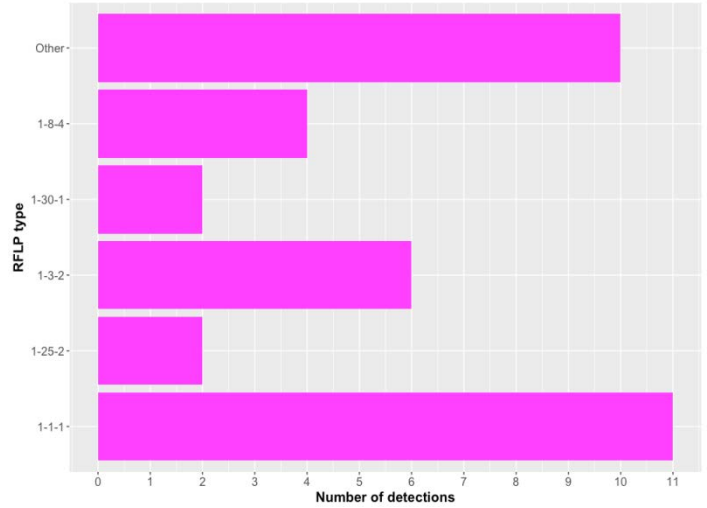
Sow Site PRRS Incidence

As highlighted below, December 2017 showed a significant spike in the number of PRRS breaks seen in sow sites with 10 of the 25 cases seen in 2017 occurring in December. Breaks from December represented approximately 9,500 sows. The increased incidence of sow site PRRS breaks has continued into the spring of 2018 with 13 new breaks reported in this quarter, representing approximately 12,000 sows. Q4 2017 and Q1 2018 breaks are estimated to represent close to 10% of the Ontario sow base.

Cumulative Number of PRRS Cases in Sow Sites

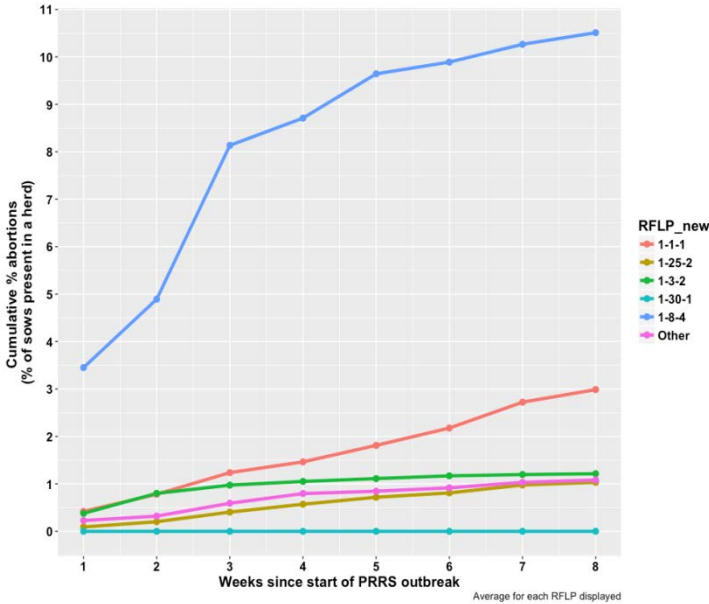


RFLP Types Identified 2017/2018 to Date



RFLP types identified throughout 2017 and 2018 can be seen above; with RFLP type 1-1-1 remaining the most commonly identified strain. Generally, this strain has been found to have mild clinical impacts with increased pre-weaning mortality being the most affected production parameter. RFLP type 1-8-4 has had severe impact on abortions and pre-weaning mortality in the herds that have reported clinical impacts.

Clinical Impact on Abortions by RFLP Type



Clinical Impact on Pre-Weaning Mortality by RFLP Type

